

TRAFFIC SIGNAL AND LIGHTING TECHNICIAN I

GRADE: 16

FLSA: NON-EXEMPT

CHARACTERISTICS OF CLASS:

The Traffic Signal and Lighting Technician performs intermediate technical and administrative work involved in the maintenance and repair of traffic signal equipment and street lights. The work is reactive with regular contacts within the department and periodic contacts with outside agencies, contractors and the general public. The physical demands are considerable requiring long periods in difficult work positions and the working conditions can be disagreeable due to weather conditions or working above traffic in a bucket of a boom truck. The incumbent's work is subject to functional policies and goals under general managerial direction. The incumbent's daily actions affect citizens with meaningful impact and moderate consequences. Incumbents work rotating shifts, weekends and other hours as necessary.

EXPECTATIONS OF ALL CITY EMPLOYEES:

- Learn and demonstrate an understanding of City, department, division and team goals.
- Serve and meet the needs of customers during routine or emergency situations.
- Ability and willingness to work as part of a team, to demonstrate team skills and to perform a fair share of team responsibilities.
- Ability to assess his/her work performance or the work performance of the team.
- Plan and organize his/her work, time and resources, and if applicable that of subordinates.
- Contribute to the development of others and/or the working unit or overall organization.
- Produce desired work outcomes including quality, quantity and timeliness.
- Communicate effectively with peers, supervisors, subordinates and people to whom service is provided.
- Understand and value differences in employees and value input from others.
- Consistently report to work and work assignments prepared and on schedule.
- Consistently display a positive behavior with regard to work, willingly accept constructive criticism and be respectful of others.

EXAMPLES OF DUTIES:

- Inspects, removes, and repairs signal controls and auxiliary equipment.
- Diagnoses malfunctions; adjusts and replaces electronic and mechanical components.

- Repairs, replaces, or modifies electric and electronic components, controllers, relays, switches, fuses, timers and other parts.
- Assists in design and construction of special test equipment for shop testing of electronic components.
- Investigates complaints and reports of signal and traffic light malfunctions and adjusts, repairs or removes defective equipment.
- Makes field repairs of damaged equipment.
- Inspects, removes and repairs street light standards and auxiliary equipment such as control boxes, light fixtures, lamps and circuitry.
- Assists in the design of electrical circuits and systems for street lighting and traffic signals.
- Inspects the work of contractors relative to traffic signals and street lighting during the course of construction and upon completion.
- Monitors traffic control computers and makes necessary adjustments.
- Relamps signalized intersections and street lights.
- Assists in preparing plans specifications for signal and street lighting projects.
- Paints light and signal standards.
- Keeps accurate work records, orders supplies, parts, and materials.
- Performs general electrical repairs at municipal facilities as required.
- Performs other duties as required.

QUALIFICATIONS:

Required Training and Experience:

Any combination of training and experience substantially equivalent to graduation from High School supplemented by courses in electronics or related field and five years of experience in traffic signal or electrical/electronic repair. Must possess appropriate driver's license valid in the State of Maryland. CDL license preferred. Possession of or ability to obtain certification as a Traffic Signal Technician, Level II through the International Municipal Signal Association (IMSA).

Preferred Knowledge, Skills and Abilities:

- Knowledge of theory and principles of electricity and electrical and electronic equipment and circuits.
- Knowledge of tools and equipment used to repair electrical and electronic equipment and installations.
- Knowledge of methods and procedures used to repair and maintain traffic signal and lighting systems.
- Knowledge of occupational hazards and standard safety precautions.
- Ability to test and repair electrical and electronic equipment and installations.
- Ability to perform duties while elevated above traffic in a bucket of a boom truck.
- Ability to read and interpret plans, specifications, blueprints, schematics and maintenance manuals.

- Ability to establish and maintain effective working relationships.
- Ability to work a variety of irregular hours, including nights and weekends, as required.
- Ability to be effective and concise in oral and written communication.

NOTE: Employees who have completed their initial probationary period and who have received certification as a Traffic Signal Technician, Level II through the International Municipal Signal Association (IMSA) will move to the Traffic Signal and Lighting Technician II position in the pay period immediately following receipt of proof of certifications by them to the Personnel Department.